Appendix E

RF Test Data for 5.8GWIFI(Conducted Measurement)

Product Name: Mini PC

Trade Mark: Blackview

Test Model: MP30

Environmental Conditions

Temperature:	25.5° C
Relative Humidity:	52.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Emiya lin
Supervised by:	Simba Haung

Contents

1 Duty Cycle

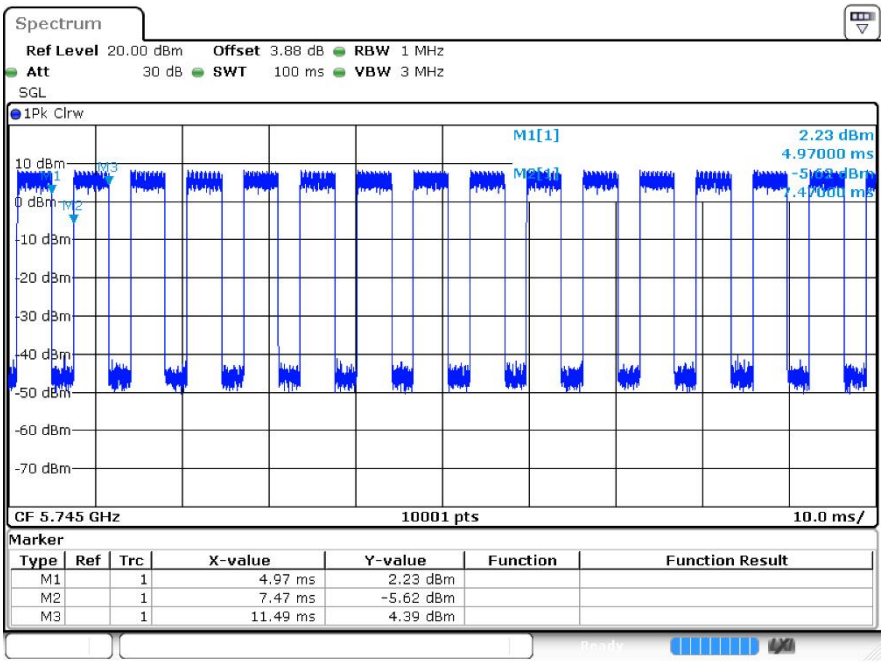
1.1 Test Result

Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
a	5745	Ant1	61.66	2.1	0.25
a	5785	Ant1	60.61	2.17	0.25
a	5825	Ant1	62.6	2.03	0.25
a	5745	Ant2	61.94	2.08	0.25
a	5785	Ant2	60.72	2.17	0.25
a	5825	Ant2	62.27	2.06	0.25
n20	5745	Ant1	60.13	2.21	0.27
n20	5785	Ant1	60.06	2.21	0.27
n20	5825	Ant1	59.87	2.23	0.27
n20	5745	Ant2	60.12	2.21	0.27
n20	5785	Ant2	59.87	2.23	0.27
n20	5825	Ant2	60.14	2.21	0.27
n40	5755	Ant1	59.34	2.27	0.28
n40	5795	Ant1	60.12	2.21	0.28
n40	5755	Ant2	58.38	2.34	0.28
n40	5795	Ant2	59.54	2.25	0.28
ac20	5745	Ant1	60.13	2.21	0.27
ac20	5785	Ant1	59.94	2.22	0.27
ac20	5825	Ant1	59.94	2.22	0.27
ac20	5745	Ant2	60.14	2.21	0.27
ac20	5785	Ant2	59.93	2.22	0.27
ac20	5825	Ant2	59.93	2.22	0.27
ac40	5755	Ant1	58.38	2.34	0.28
ac40	5795	Ant1	60.16	2.21	0.28
ac40	5755	Ant2	59.26	2.27	0.28
ac40	5795	Ant2	60.12	2.21	0.28
ac80	5775	Ant1	57.06	2.44	0.3
ac80	5775	Ant2	57.29	2.42	0.3
ax20	5745	Ant1	57.24	2.42	0.3
ax20	5785	Ant1	57.57	2.4	0.3
ax20	5825	Ant1	57.22	2.42	0.3
ax20	5745	Ant2	57.64	2.39	0.3
ax20	5785	Ant2	57.62	2.39	0.3
ax20	5825	Ant2	57.25	2.42	0.3
ax40	5755	Ant1	57.16	2.43	0.3
ax40	5795	Ant1	57.65	2.39	0.3
ax40	5755	Ant2	57.33	2.42	0.3

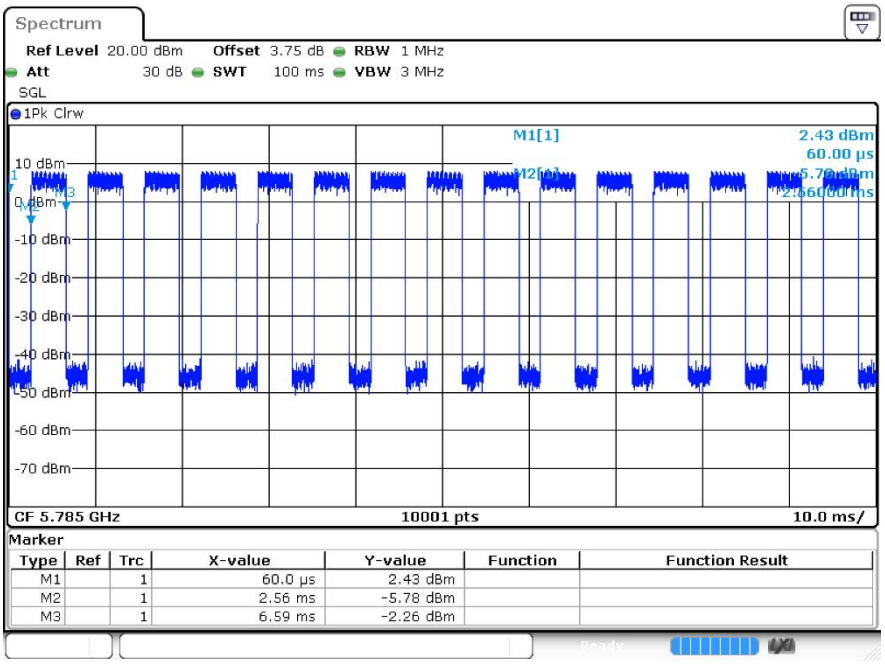
ax40	5795	Ant2	57.63	2.39	0.3
ax80	5775	Ant1	57.27	2.42	0.31
ax80	5775	Ant2	54.98	2.6	0.31

1.2 Test Graphs

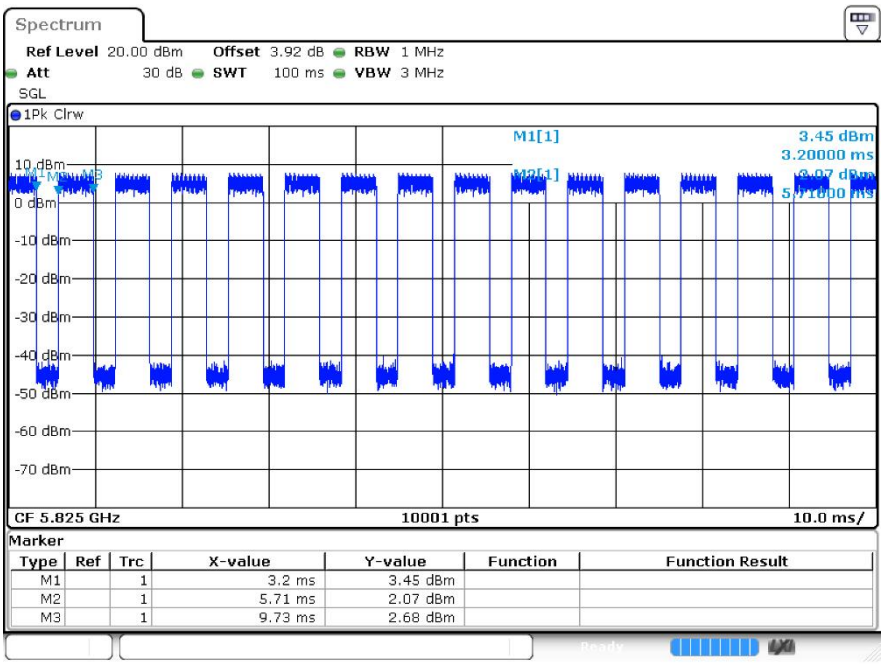
Test Graphs
Duty Cycle a 5745MHz Ant1



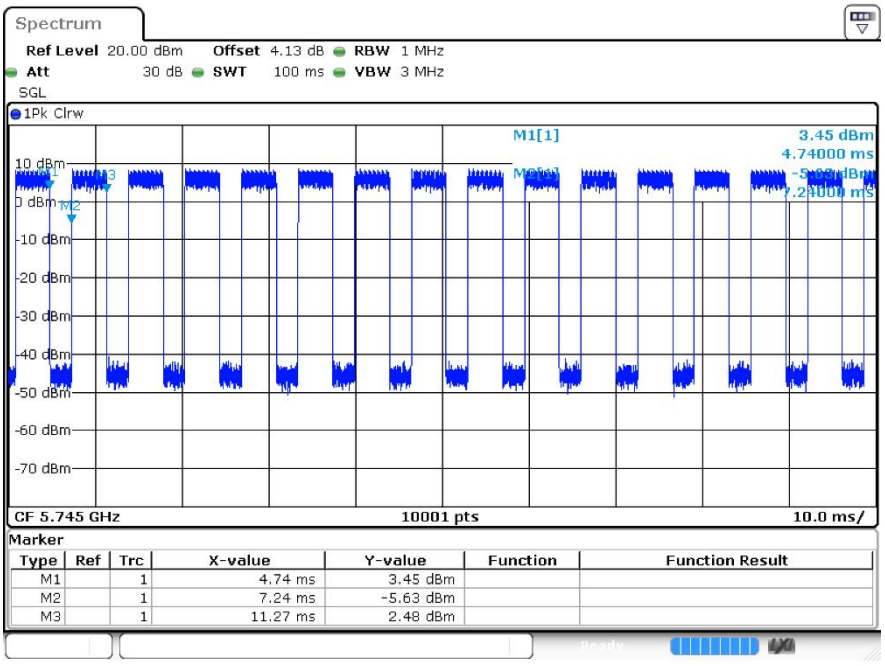
Duty Cycle a 5785MHz Ant1



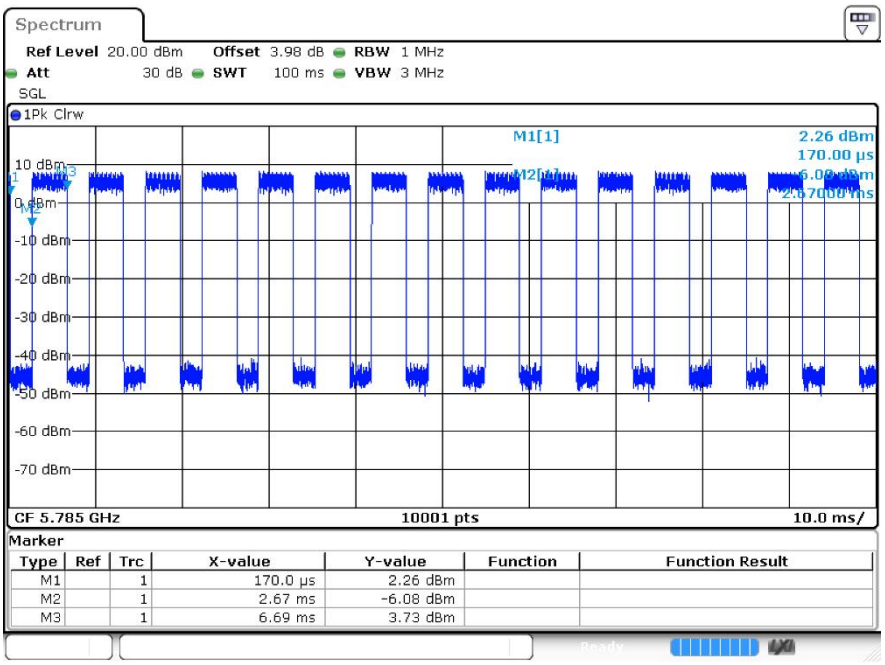
Duty Cycle a 5825MHz Ant1



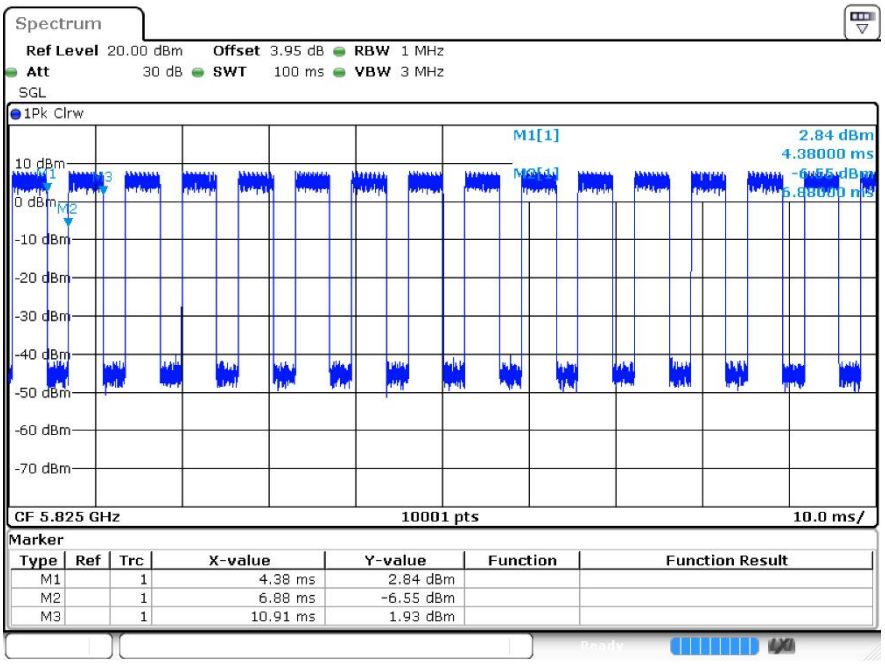
Duty Cycle a 5745MHz Ant2



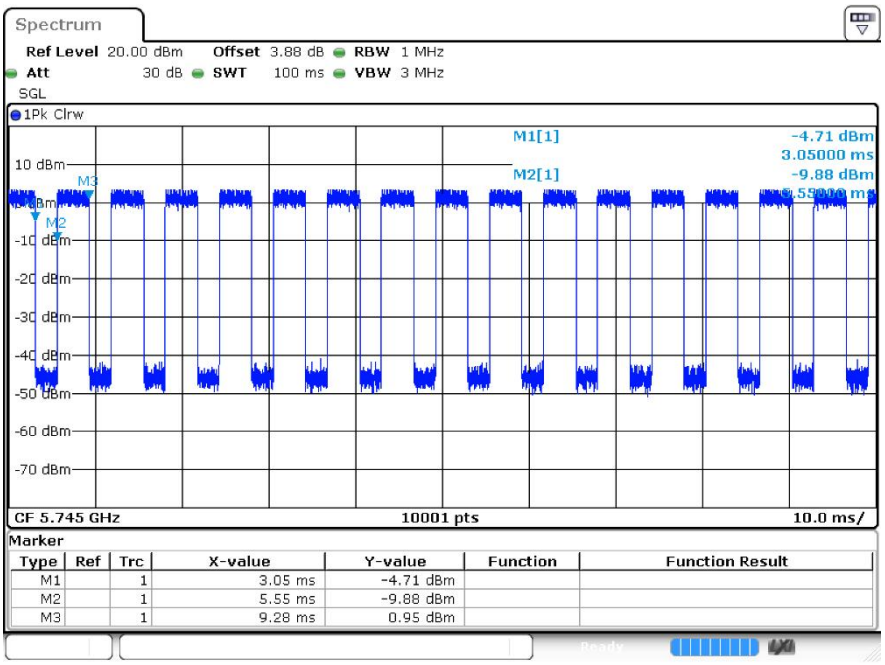
Duty Cycle a 5785MHz Ant2



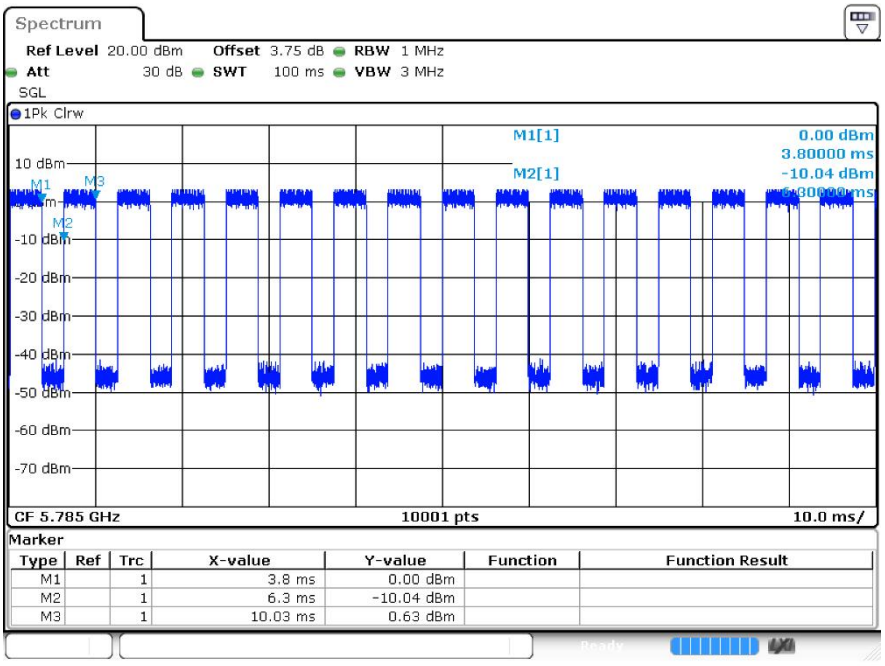
Duty Cycle a 5825MHz Ant2



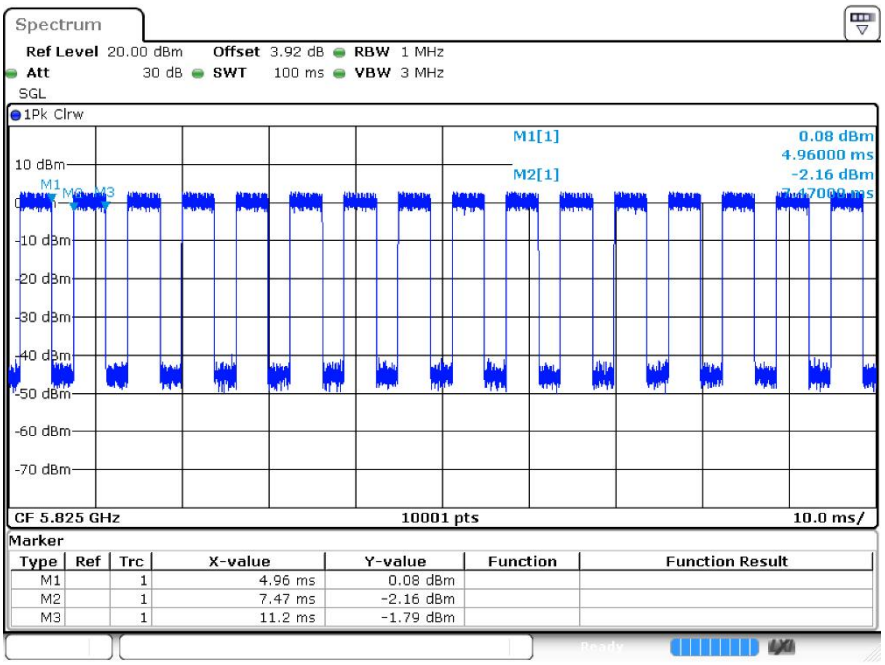
Duty Cycle n20 5745MHz Ant1



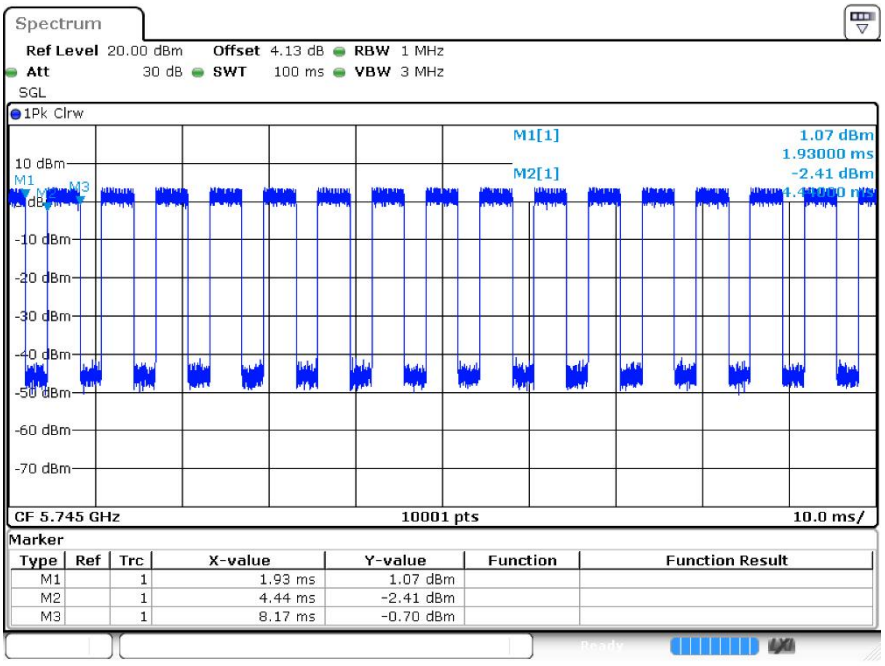
Duty Cycle n20 5785MHz Ant1



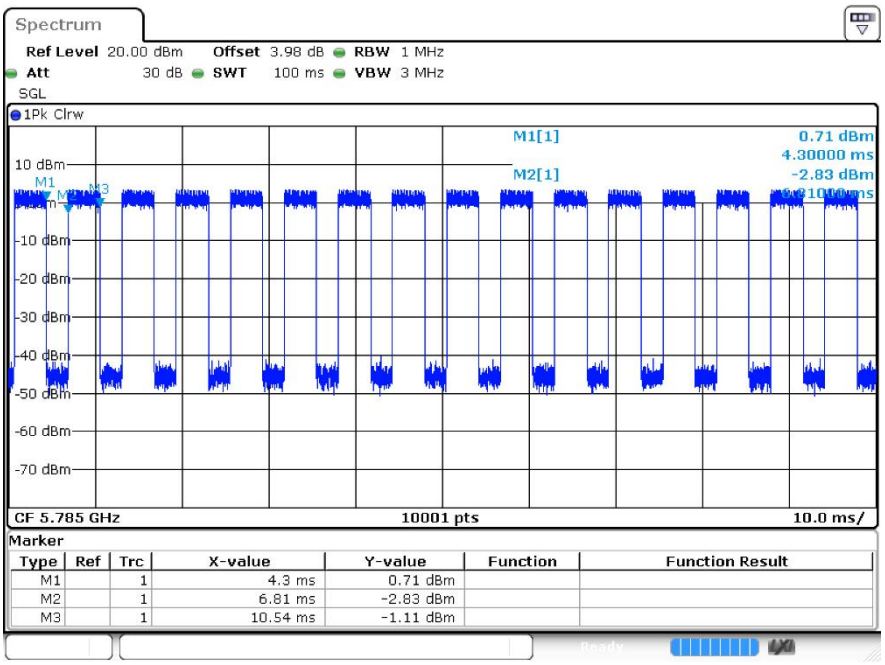
Duty Cycle n20 5825MHz Ant1



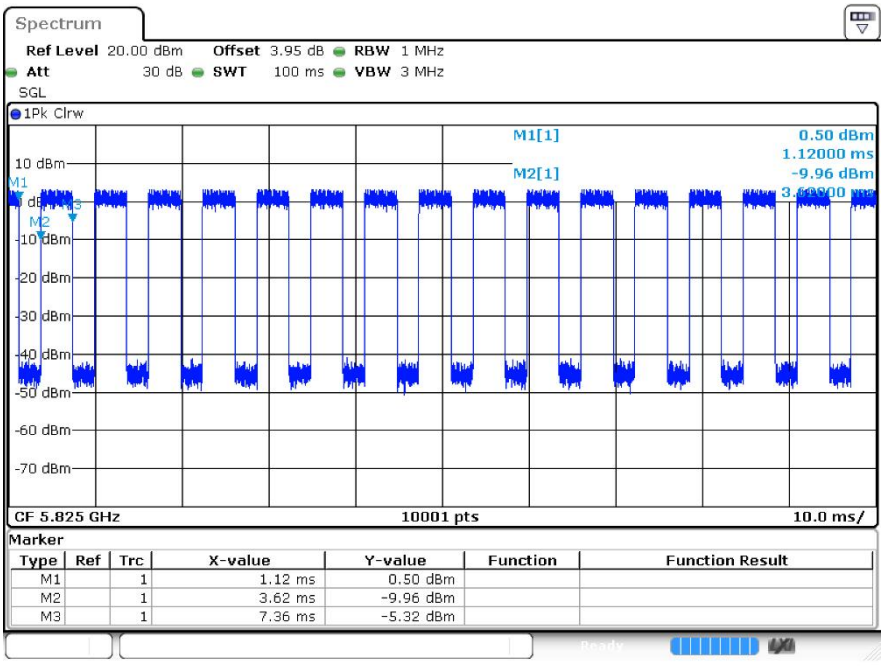
Duty Cycle n20 5745MHz Ant2



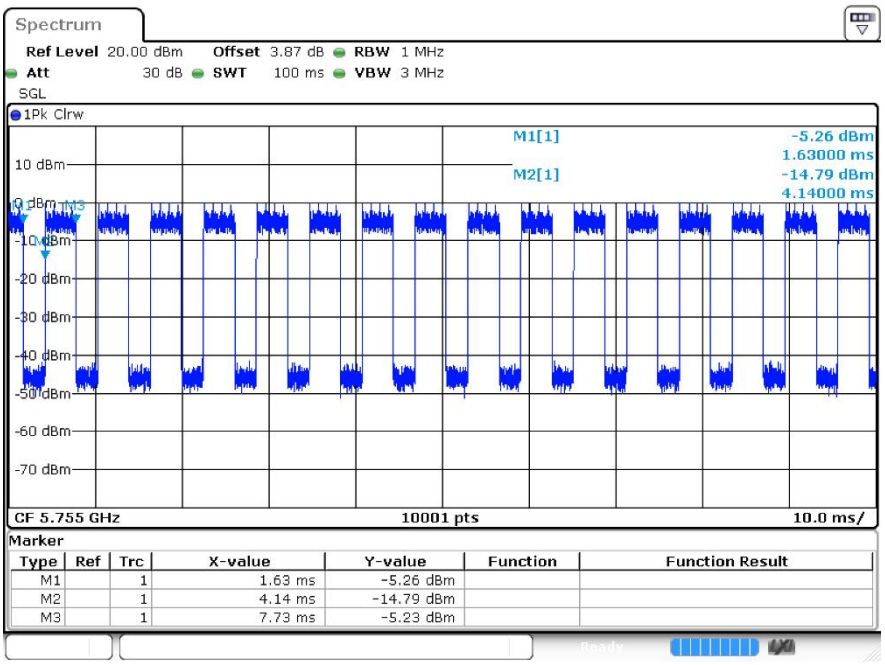
Duty Cycle n20 5785MHz Ant2



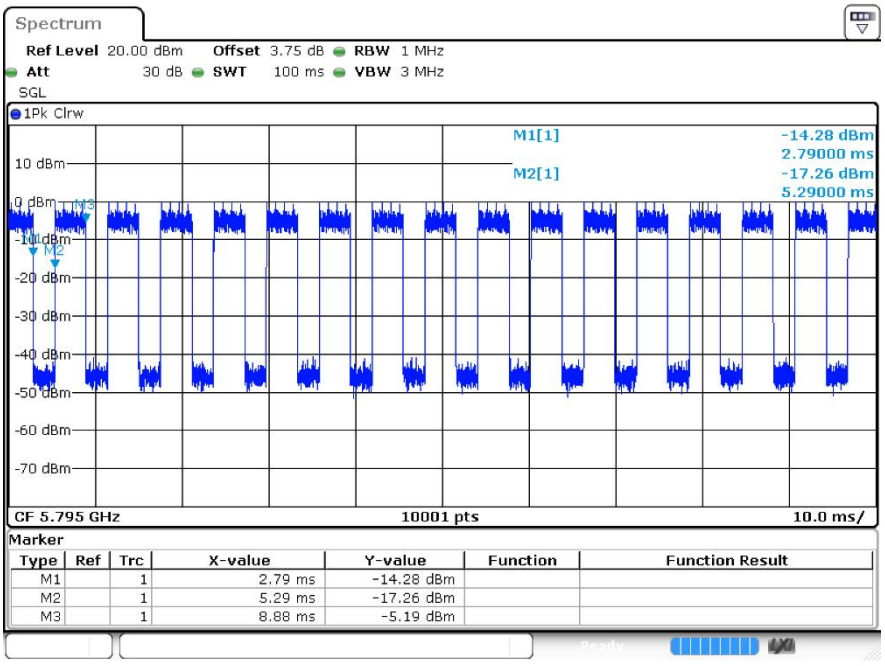
Duty Cycle n20 5825MHz Ant2



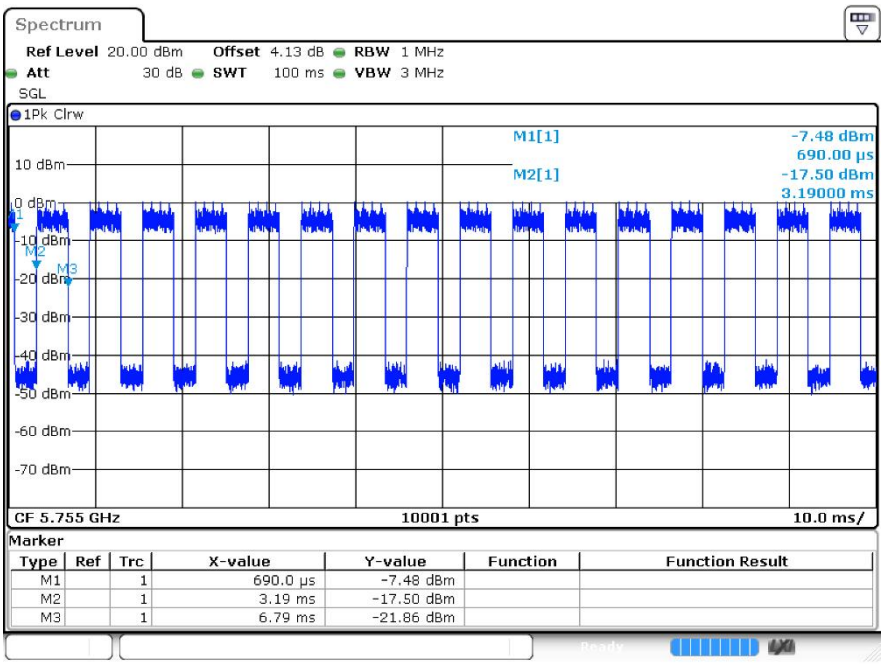
Duty Cycle n40 5755MHz Ant1



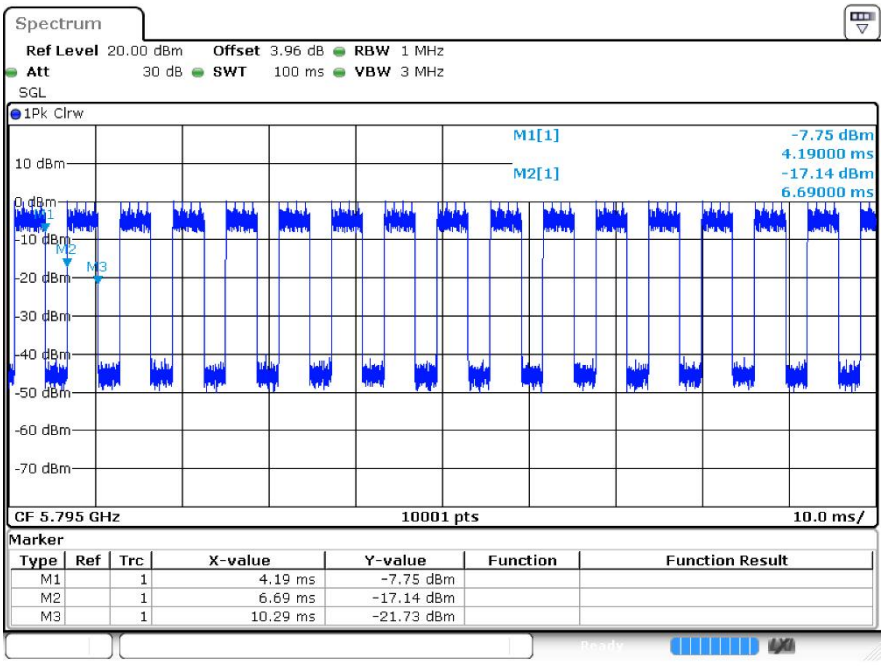
Duty Cycle n40 5795MHz Ant1



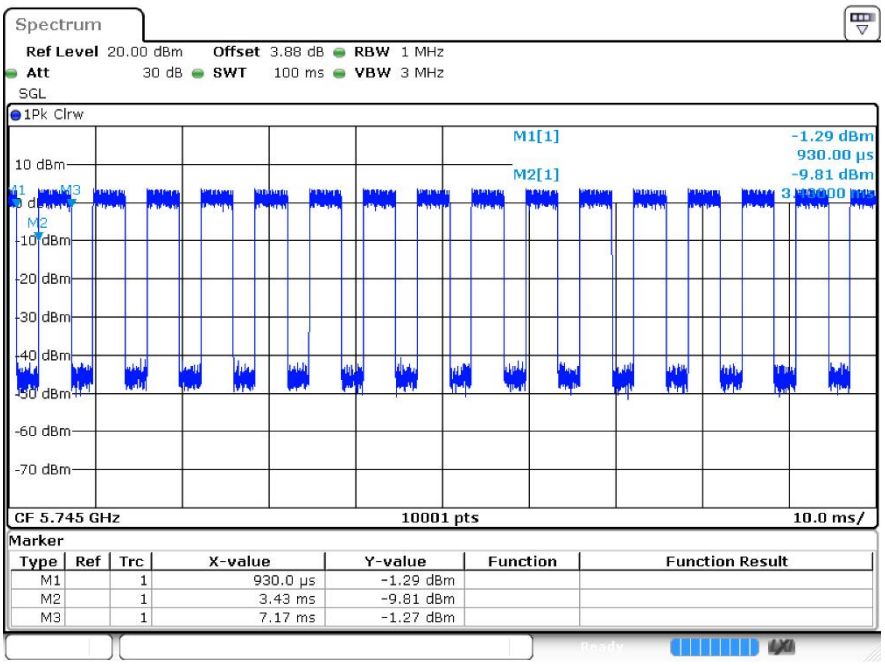
Duty Cycle n40 5755MHz Ant2



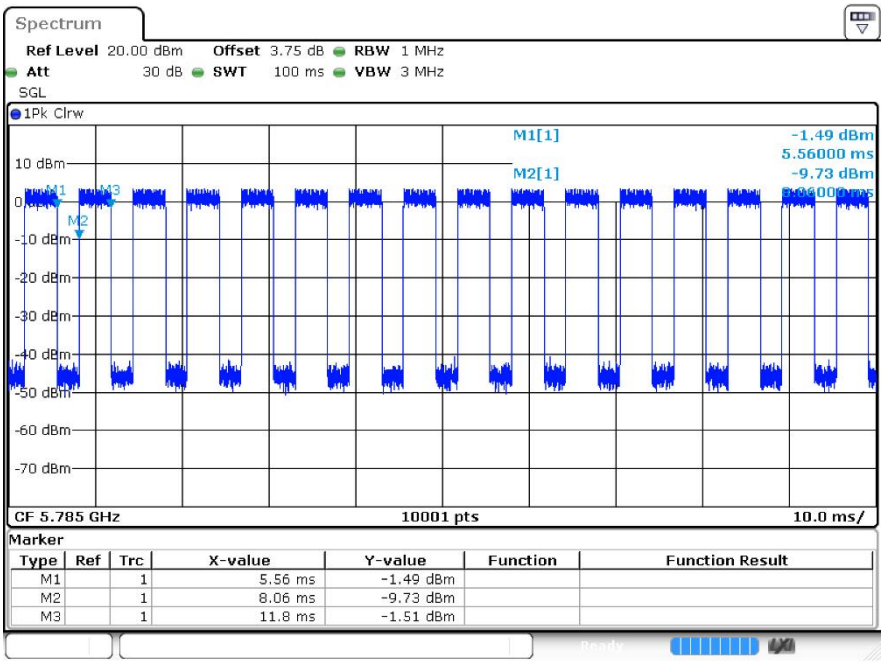
Duty Cycle n40 5795MHz Ant2



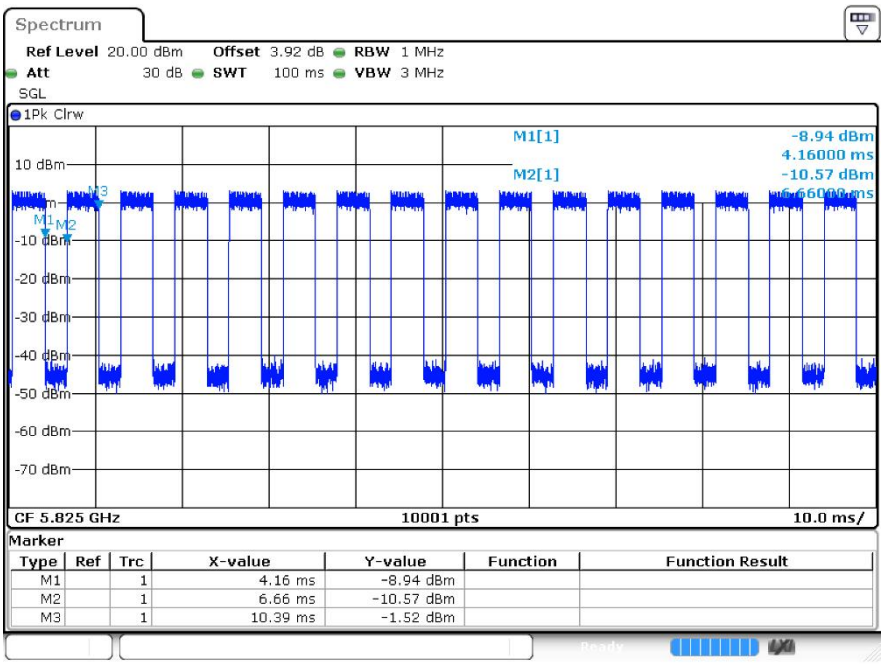
Duty Cycle ac20 5745MHz Ant1



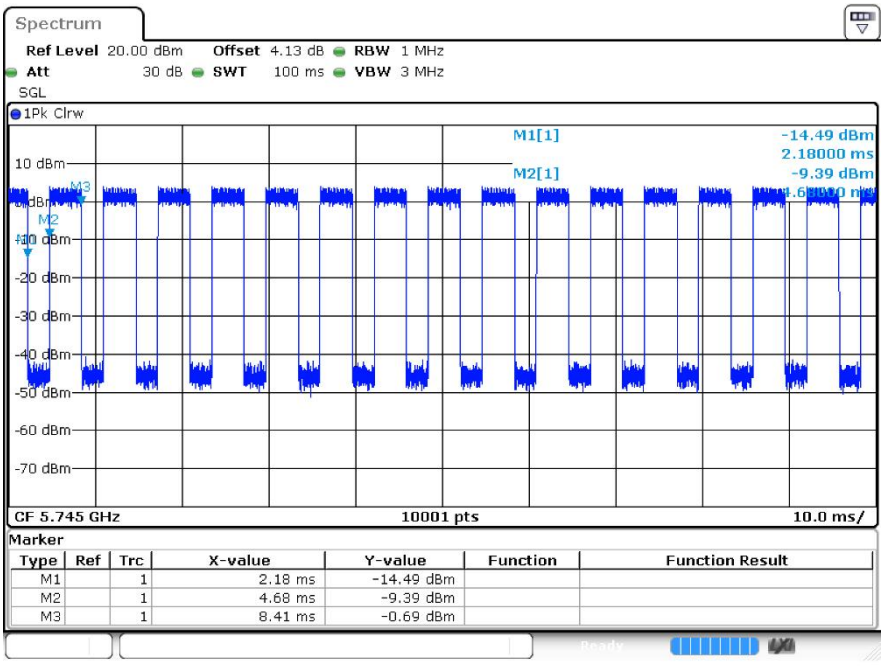
Duty Cycle ac20 5785MHz Ant1



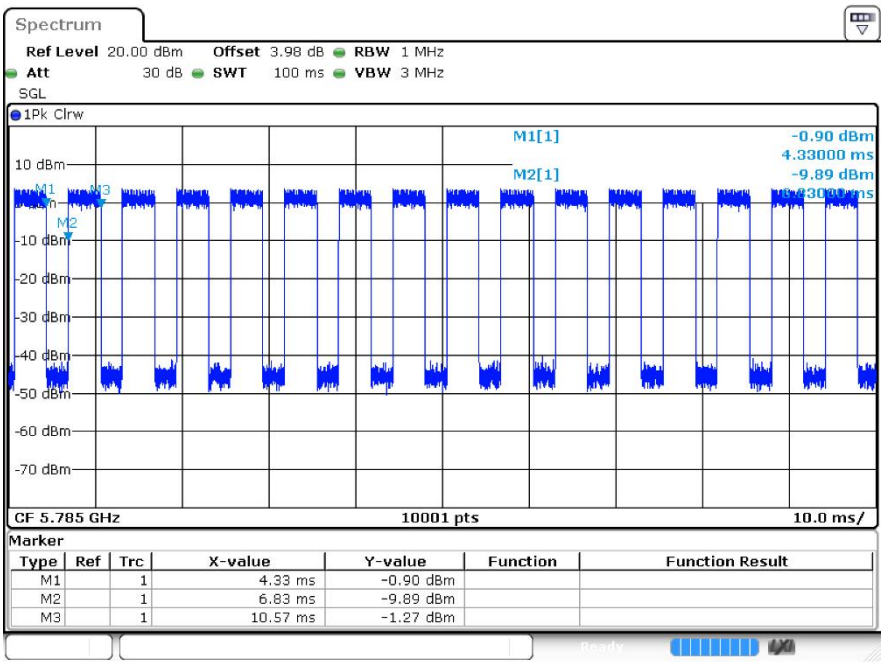
Duty Cycle ac20 5825MHz Ant1



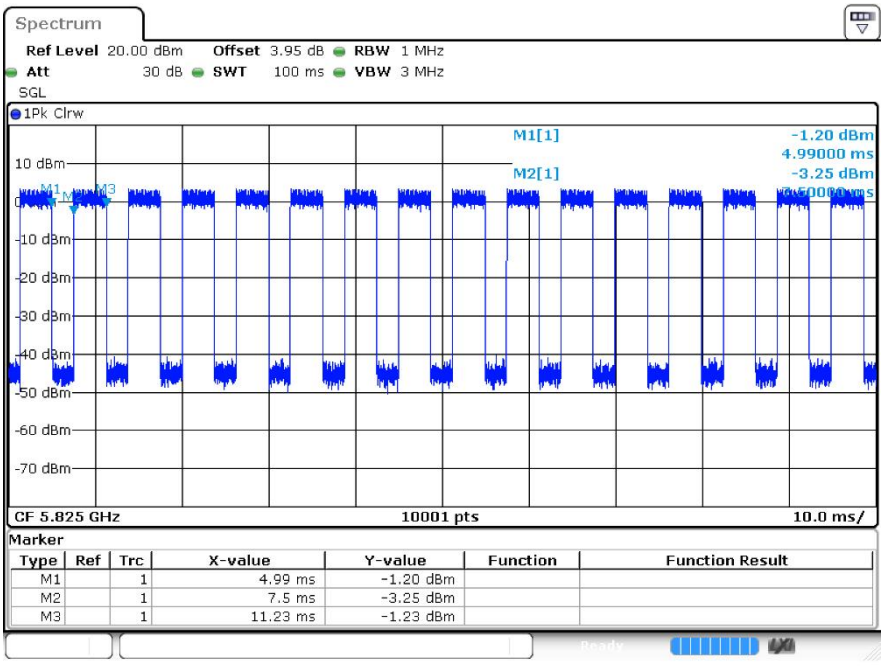
Duty Cycle ac20 5745MHz Ant2



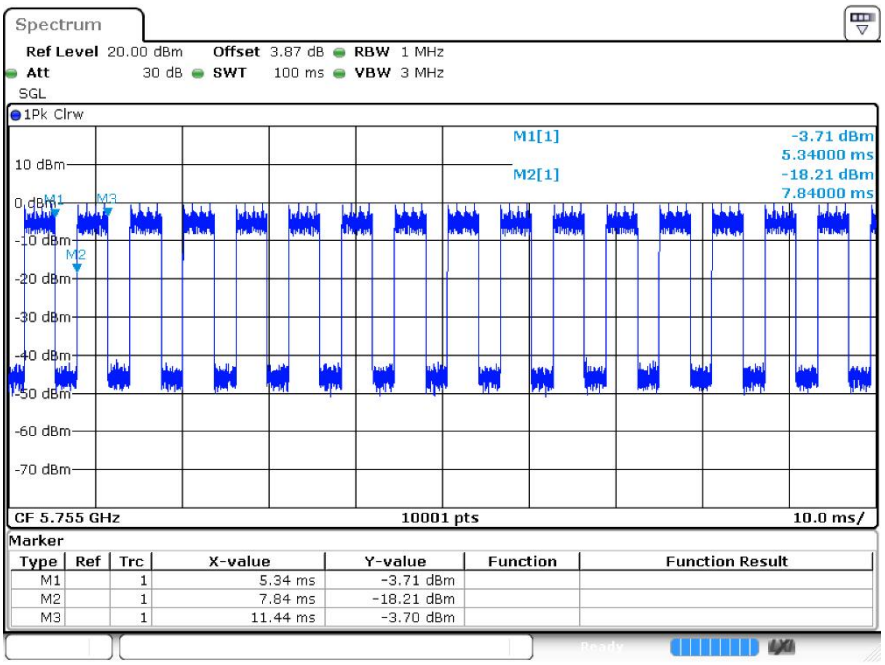
Duty Cycle ac20 5785MHz Ant2



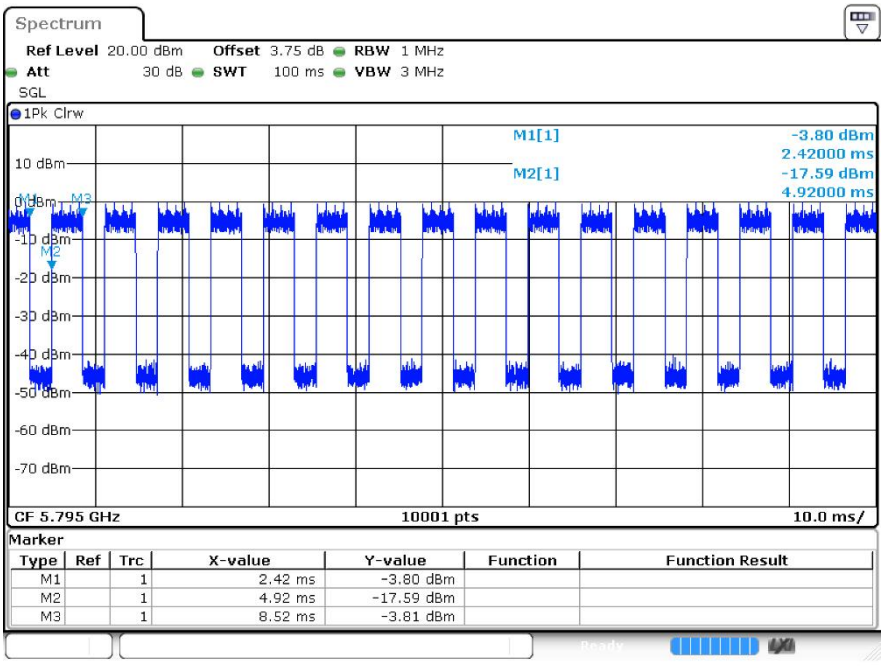
Duty Cycle ac20 5825MHz Ant2



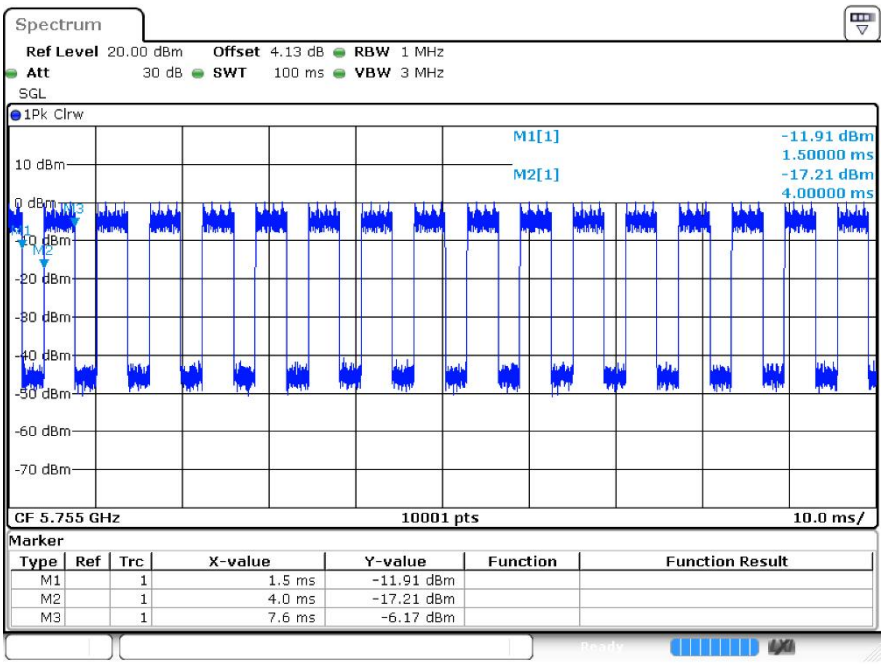
Duty Cycle ac40 5755MHz Ant1



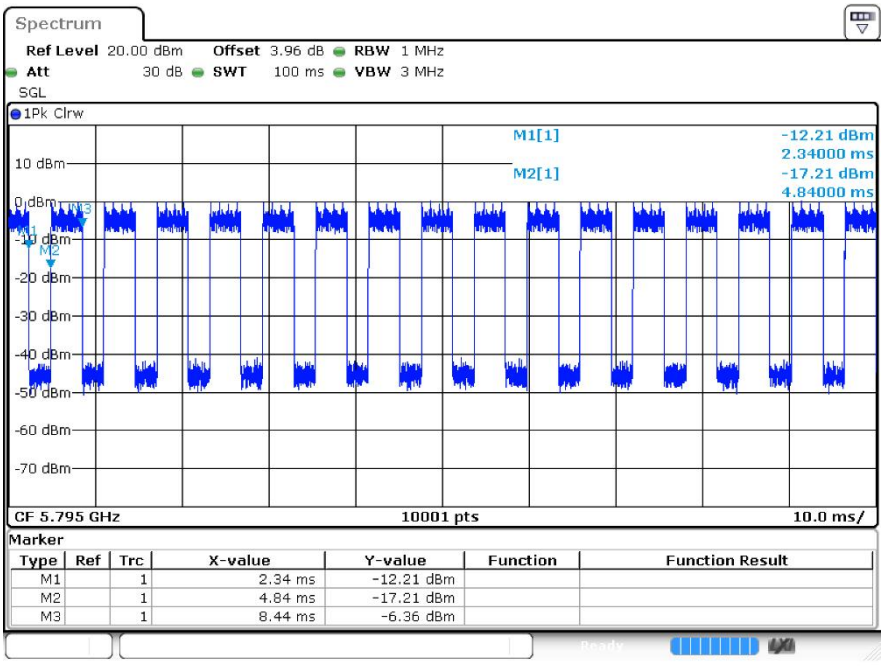
Duty Cycle ac40 5795MHz Ant1



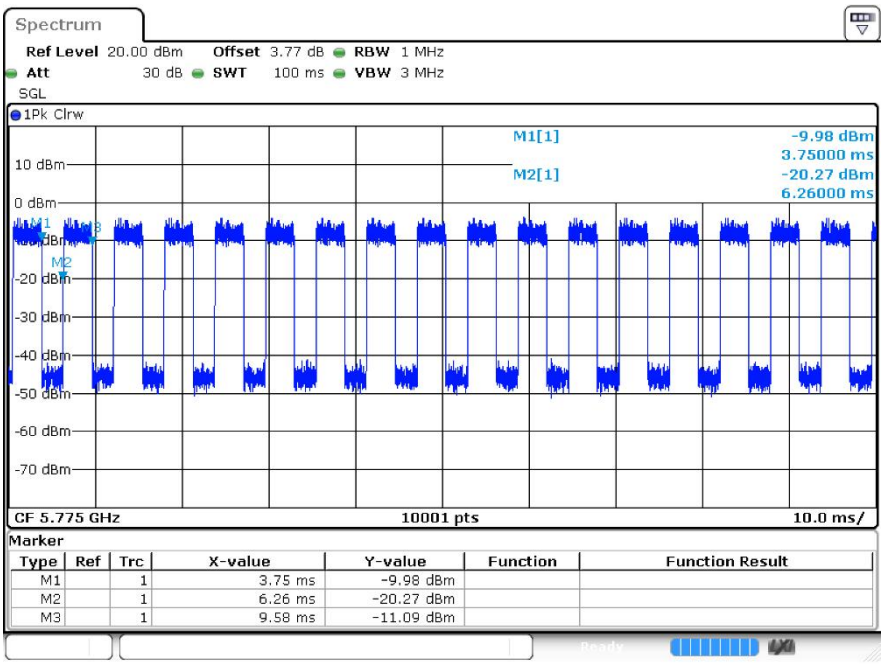
Duty Cycle ac40 5755MHz Ant2



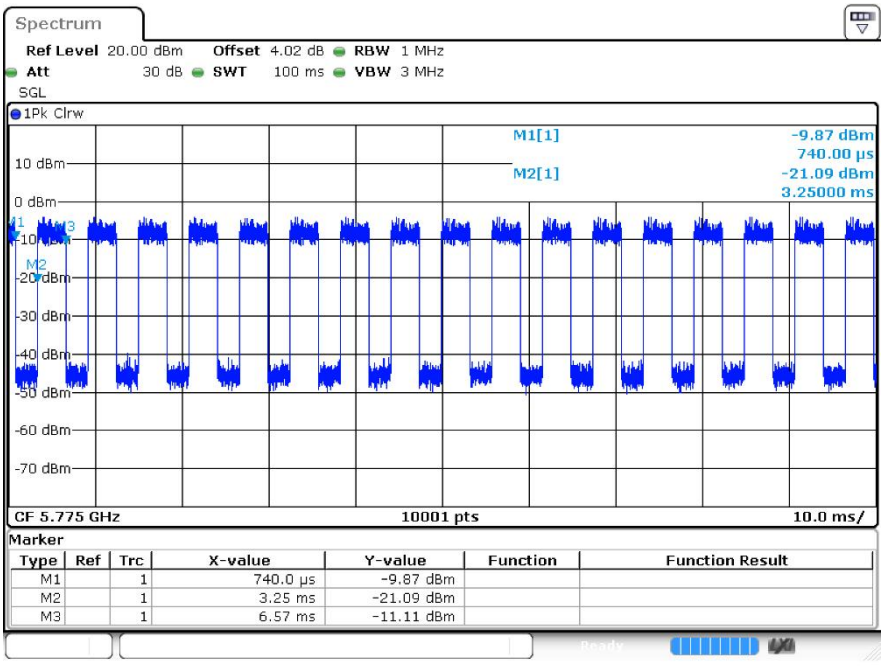
Duty Cycle ac40 5795MHz Ant2



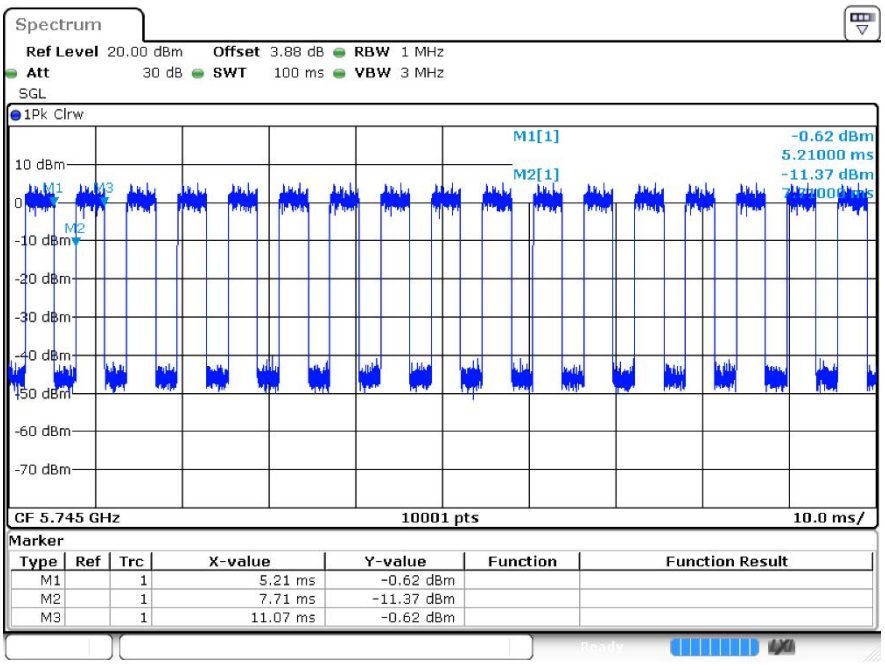
Duty Cycle ac80 5775MHz Ant1



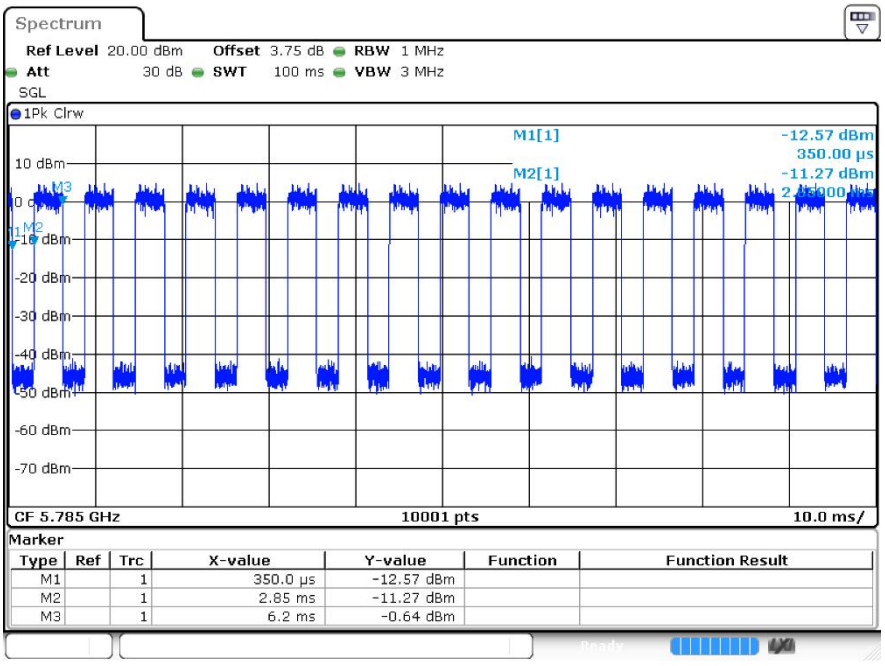
Duty Cycle ac80 5775MHz Ant2



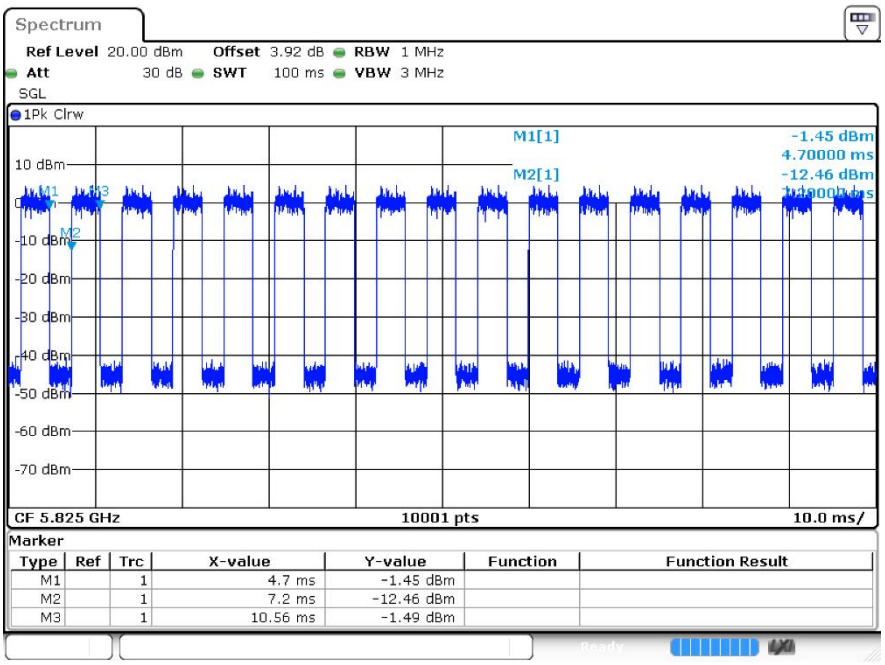
Duty Cycle ax20 5745MHz Ant1



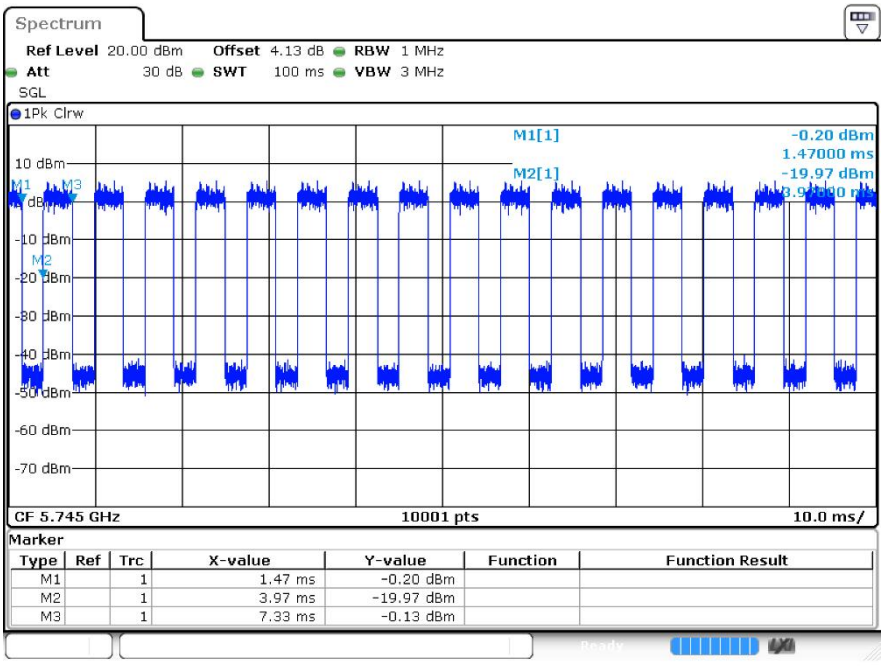
Duty Cycle ax20 5785MHz Ant1



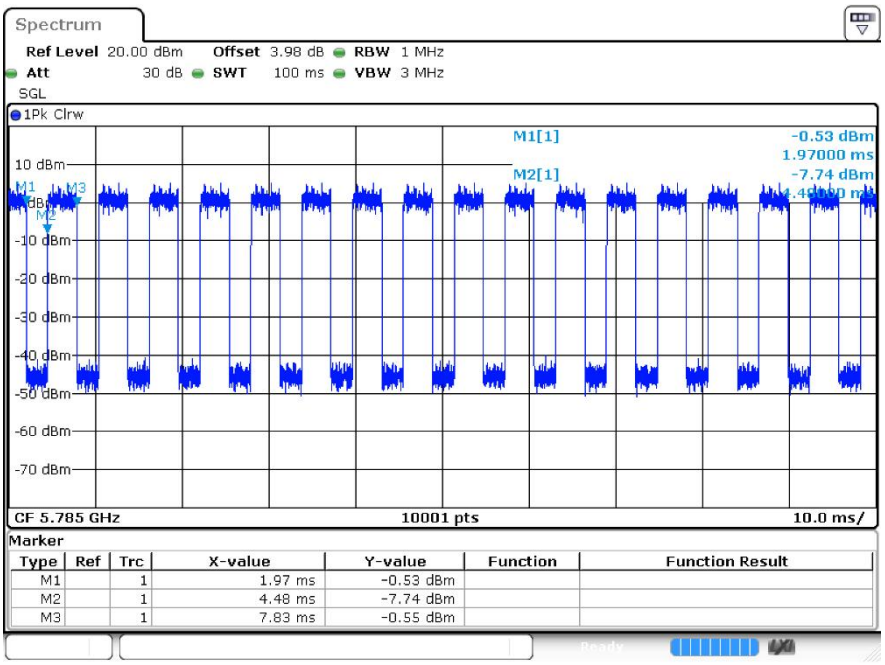
Duty Cycle ax20 5825MHz Ant1



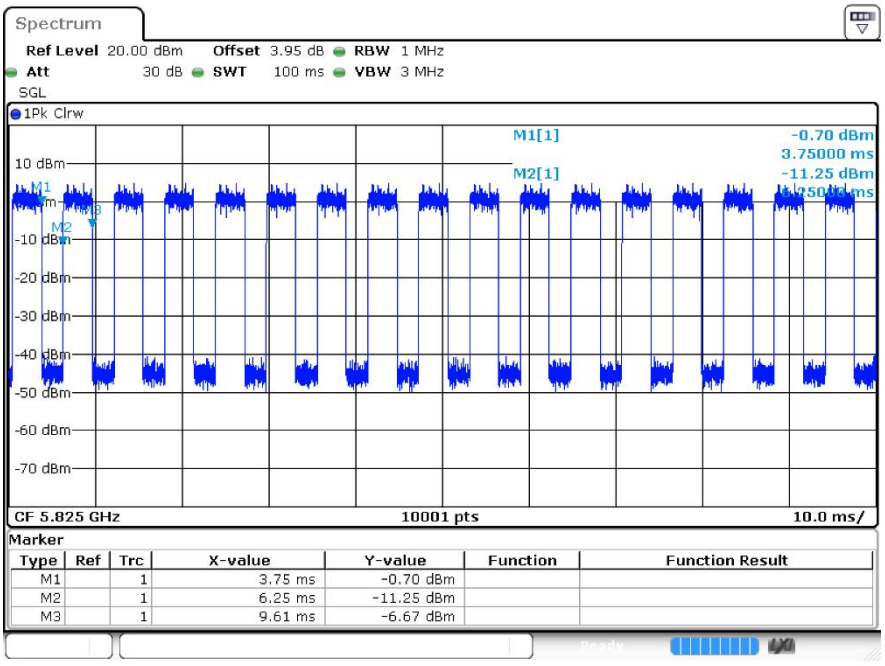
Duty Cycle ax20 5745MHz Ant2



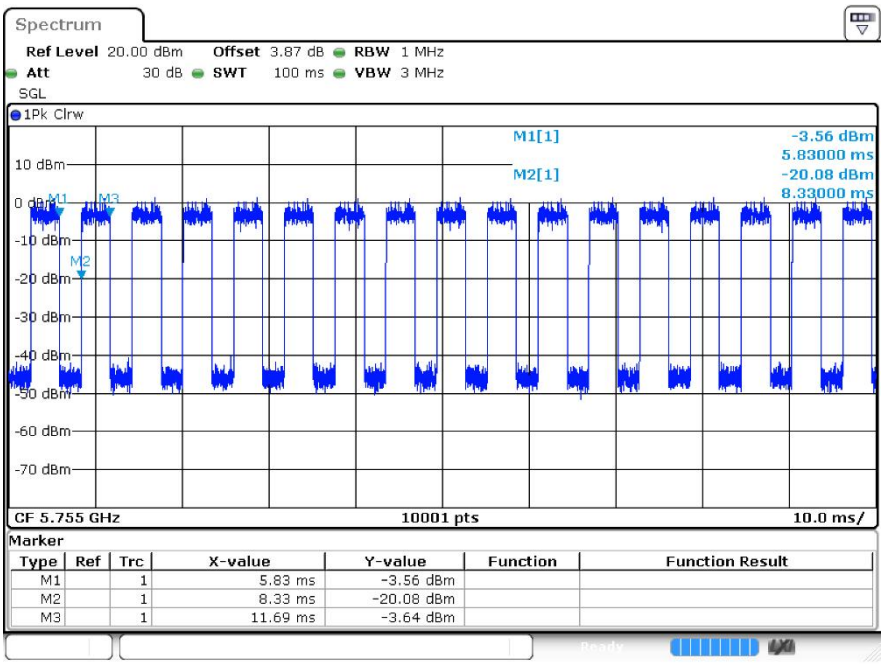
Duty Cycle ax20 5785MHz Ant2



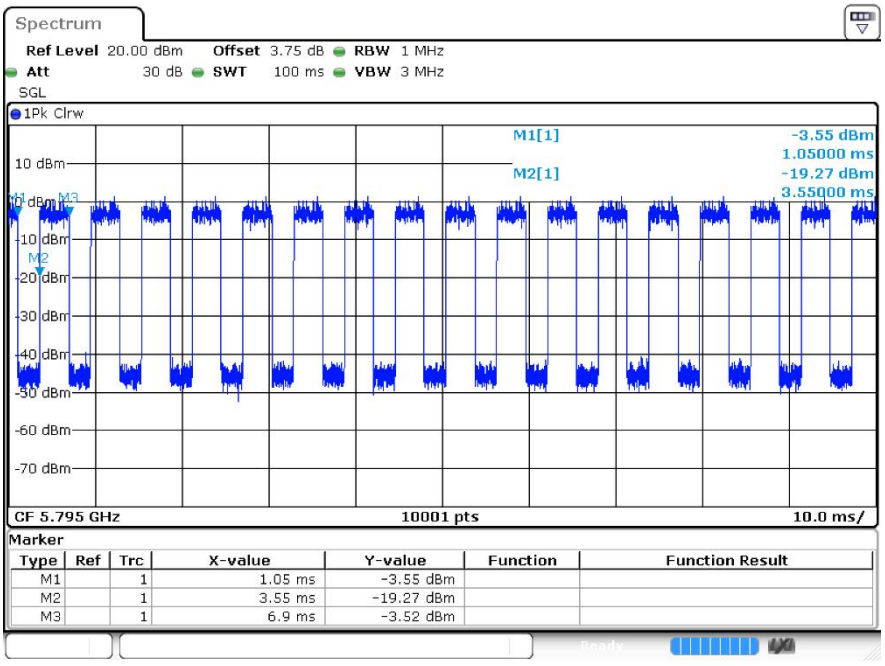
Duty Cycle ax20 5825MHz Ant2



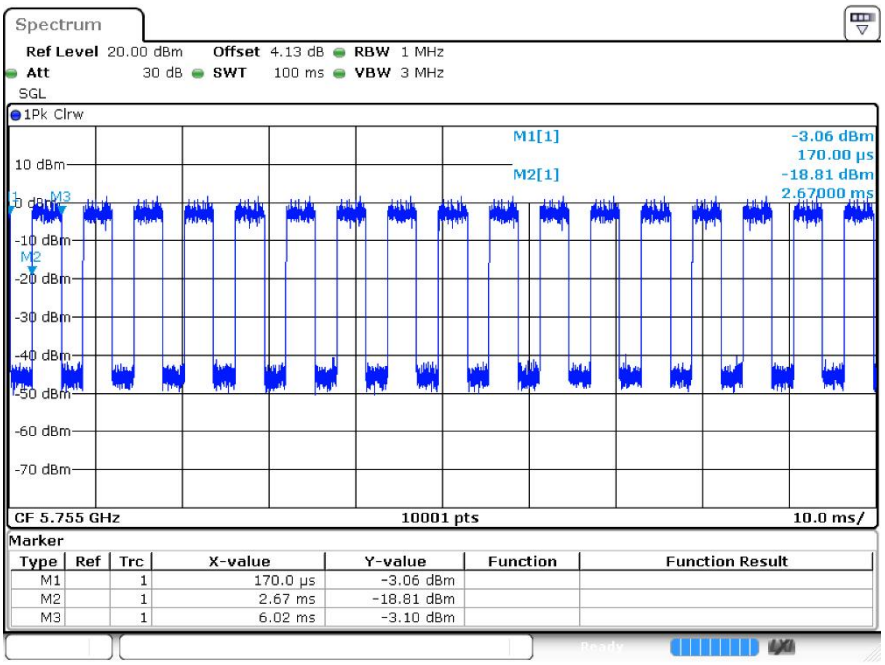
Duty Cycle ax40 5755MHz Ant1



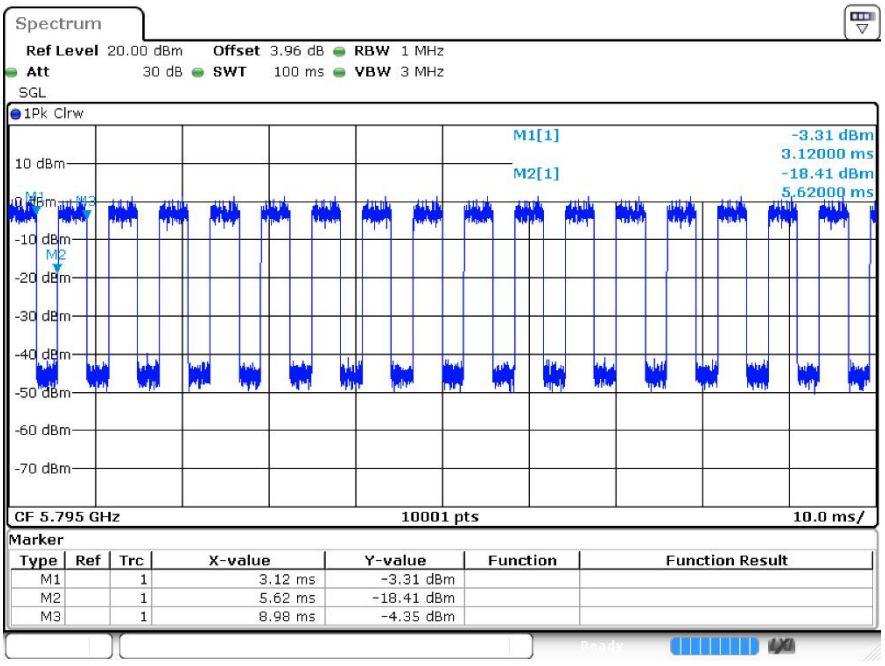
Duty Cycle ax40 5795MHz Ant1



Duty Cycle ax40 5755MHz Ant2



Duty Cycle ax40 5795MHz Ant2



2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
a	5745	Ant1	14.46	30	Pass
a	5785	Ant1	14.23	30	Pass
a	5825	Ant1	13.9	30	Pass
a	5745	Ant2	14.63	30	Pass
a	5785	Ant2	14.43	30	Pass
a	5825	Ant2	14.19	30	Pass
n20	5745	Ant1	10.5	30	Pass
n20	5745	Ant2	10.71	30	Pass
n20	5745	Sum	13.62	29.86	Pass
n20	5785	Ant1	10.18	30	Pass
n20	5785	Ant2	10.35	30	Pass
n20	5785	Sum	13.28	29.86	Pass
n20	5825	Ant1	9.95	30	Pass
n20	5825	Ant2	10.22	30	Pass
n20	5825	Sum	13.10	29.86	Pass
n40	5755	Ant1	10.81	30	Pass
n40	5755	Ant2	10.94	30	Pass
n40	5755	Sum	13.89	29.86	Pass
n40	5795	Ant1	10.58	30	Pass
n40	5795	Ant2	10.89	30	Pass
n40	5795	Sum	13.75	29.86	Pass
ac20	5745	Ant1	10.56	30	Pass
ac20	5745	Ant2	10.68	30	Pass
ac20	5745	Sum	13.63	29.86	Pass
ac20	5785	Ant1	10.28	30	Pass
ac20	5785	Ant2	10.46	30	Pass
ac20	5785	Sum	13.38	29.86	Pass
ac20	5825	Ant1	9.97	30	Pass
ac20	5825	Ant2	10.27	30	Pass
ac20	5825	Sum	13.13	29.86	Pass
ac40	5755	Ant1	10.84	30	Pass
ac40	5755	Ant2	10.89	30	Pass
ac40	5755	Sum	13.88	29.86	Pass
ac40	5795	Ant1	10.69	30	Pass
ac40	5795	Ant2	10.91	30	Pass
ac40	5795	Sum	13.81	29.86	Pass

ac80	5775	Ant1	10.36	30	Pass
ac80	5775	Ant2	10.59	30	Pass
ac80	5775	Sum	13.49	29.86	Pass
ax20	5745	Ant1	10.49	30	Pass
ax20	5745	Ant2	10.65	30	Pass
ax20	5745	Sum	13.58	29.86	Pass
ax20	5785	Ant1	10.37	30	Pass
ax20	5785	Ant2	10.51	30	Pass
ax20	5785	Sum	13.45	29.86	Pass
ax20	5825	Ant1	9.89	30	Pass
ax20	5825	Ant2	10.05	30	Pass
ax20	5825	Sum	12.98	29.86	Pass
ax40	5755	Ant1	10.66	30	Pass
ax40	5755	Ant2	10.66	30	Pass
ax40	5755	Sum	13.67	29.86	Pass
ax40	5795	Ant1	10.41	30	Pass
ax40	5795	Ant2	10.54	30	Pass
ax40	5795	Sum	13.49	29.86	Pass
ax80	5775	Ant1	10.15	30	Pass
ax80	5775	Ant2	10.13	30	Pass
ax80	5775	Sum	13.15	29.86	Pass

Note:

The duty factor has been compensated into the result.

The MIMO gain of antenna is 6.14 dBi, which exceeds 6 dBi. Limit = 30 - (6.14 - 6) = 29.86 dBm

3 -6dB Bandwidth

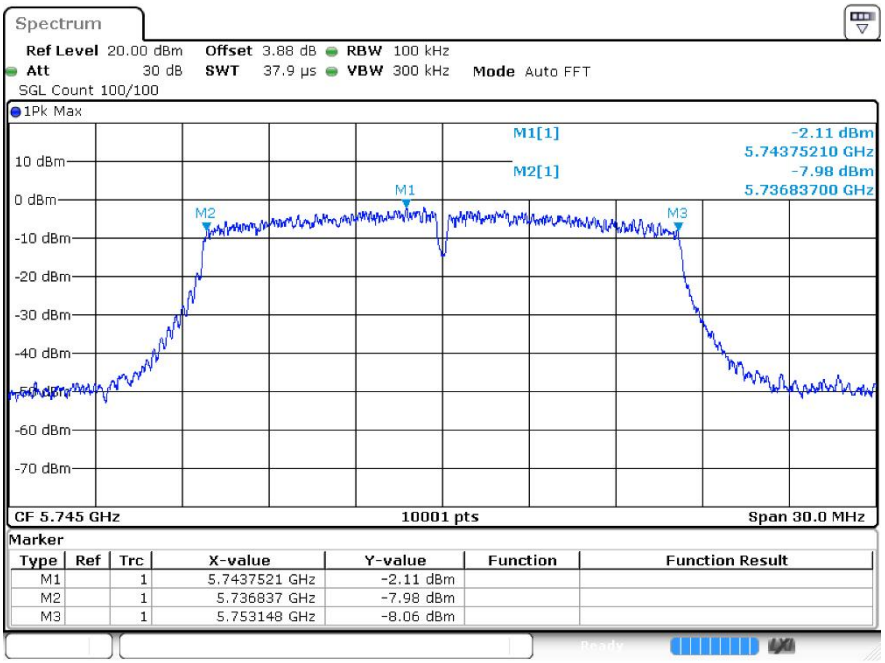
3.1 Test Result

Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
a	5745	Ant1	16.311	0.5	Pass
a	5785	Ant1	16.038	0.5	Pass
a	5825	Ant1	16.059	0.5	Pass
n20	5745	Ant1	17.52	0.5	Pass
n20	5785	Ant1	17.526	0.5	Pass
n20	5825	Ant1	17.55	0.5	Pass
n40	5755	Ant1	34.152	0.5	Pass
n40	5795	Ant1	36.054	0.5	Pass
ac20	5745	Ant1	17.166	0.5	Pass
ac20	5785	Ant1	14.718	0.5	Pass
ac20	5825	Ant1	15.084	0.5	Pass
ac40	5755	Ant1	36.312	0.5	Pass
ac40	5795	Ant1	36.03	0.5	Pass
ac80	5775	Ant1	64.656	0.5	Pass
ax20	5745	Ant1	15.243	0.5	Pass
ax20	5785	Ant1	18.225	0.5	Pass
ax20	5825	Ant1	16.728	0.5	Pass
ax40	5755	Ant1	36.876	0.5	Pass
ax40	5795	Ant1	30.42	0.5	Pass
ax80	5775	Ant1	65.052	0.5	Pass
a	5745	Ant2	16.296	0.5	Pass
a	5785	Ant2	16.293	0.5	Pass
a	5825	Ant2	16.308	0.5	Pass
n20	5745	Ant2	17.544	0.5	Pass
n20	5785	Ant2	17.562	0.5	Pass
n20	5825	Ant2	16.791	0.5	Pass
n40	5755	Ant2	33.774	0.5	Pass
n40	5795	Ant2	31.278	0.5	Pass
ac20	5745	Ant2	12.567	0.5	Pass
ac20	5785	Ant2	17.541	0.5	Pass
ac20	5825	Ant2	17.541	0.5	Pass
ac40	5755	Ant2	36.3	0.5	Pass
ac40	5795	Ant2	35.43	0.5	Pass
ac80	5775	Ant2	72.54	0.5	Pass
ax20	5745	Ant2	13.563	0.5	Pass
ax20	5785	Ant2	18.687	0.5	Pass
ax20	5825	Ant2	17.37	0.5	Pass

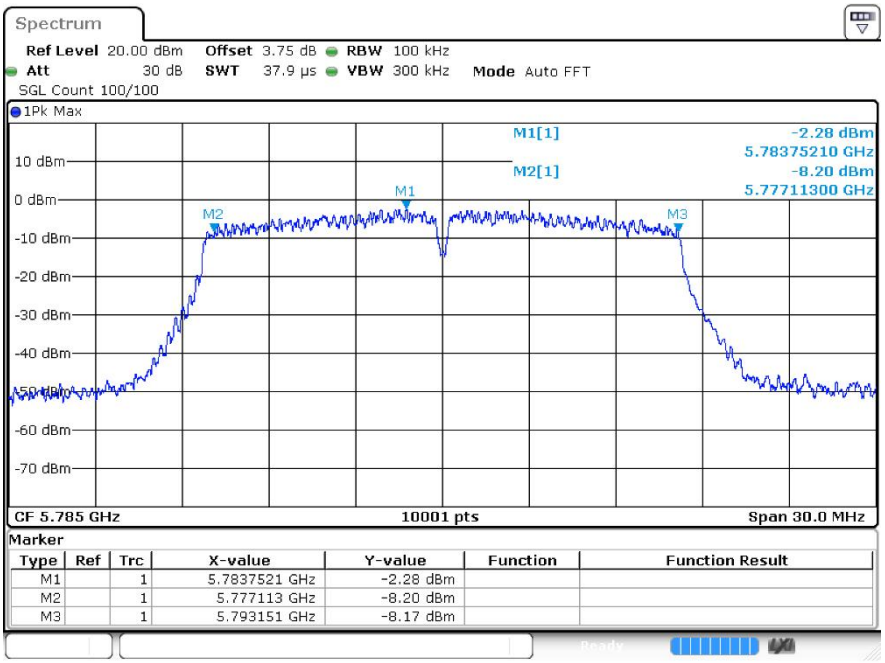
ax40	5755	Ant2	27.378	0.5	Pass
ax40	5795	Ant2	29.286	0.5	Pass
ax80	5775	Ant2	73.044	0.5	Pass

3.2 Test Graphs

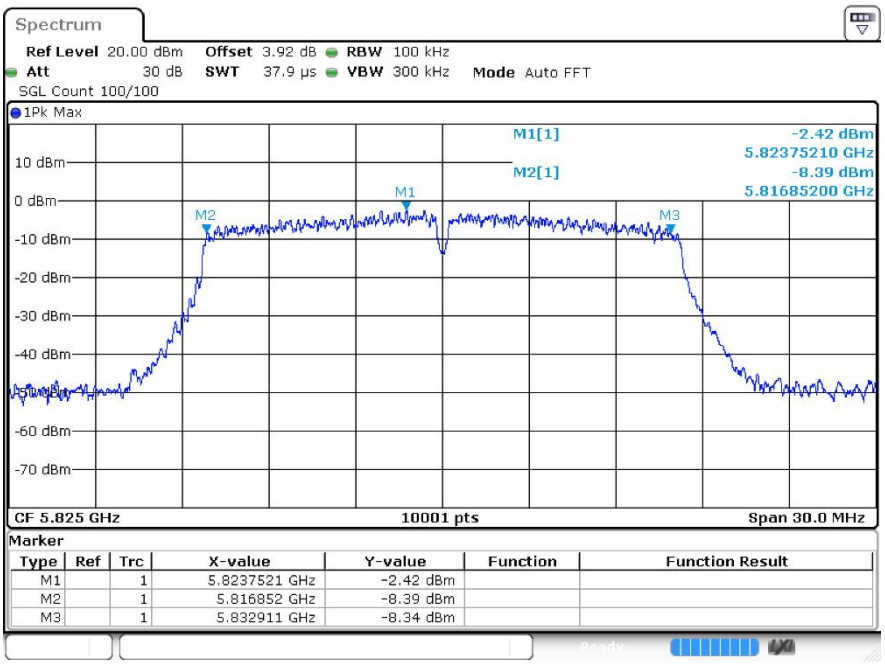
Test Graphs
-6dB Bandwidth a 5745MHz Ant1



-6dB Bandwidth a 5785MHz Ant1



-6dB Bandwidth a 5825MHz Ant1



-6dB Bandwidth n20 5745MHz Ant1